

FIG. 1A

10 30 50
GAATTCGGCACGAGCTGAGGGGTGAGCCAAGCCCTGCCATGTAGTGCACGCAGGACATCA
70 90 110
ACAAACACAGATAACAGGAAATGATCCATTCCCTGTGGTCACTTATTCTAAAGGCCCCAA
130 150 170
CCTTCAAAGTTCAAGTAGTGATATGGATGACTCCACAGAAAGGGAGCAGTCACGCCTTAC
M D D S T E R E Q S R L T
190 210 230
TTCTTGCCTTAAGAAAAGAGAAGAAATGAAACTGAAGGAGTGTGTTTCCATCCTCCCACG
S C L K K R E E M K L K E C V S I L P R
250 270 290
GAAGGAAAGCCCCTCTGTCCGATCCTCCAAGACGGAAAGCTGCTGGCTGCAACCTTGCT
K E S P S V R S S K D G K L L A A T L L
310 330 350
GCTGGCACTGCTGTCTTGCTGCCTCACGGTGGTGTCTTTCTACCAGGTGGCCGCCCTGCA
L A L L S C C L T V V S F Y O V A A L Q
370 390 410
AGGGGACCTGGCCAGCCTCCGGGCAGAGCTGCAGGGCCACCACGCGGAGAAGCTGCCAGC
G D L A S L R A E L Q G H H A E K L P A
430 450 470
AGGAGCAGGAGCCCCAAGGCCGGCCTGGAGGAAGCTCCAGCTGTCACCGCGGGACTGAA
G A G A P K A G L E E A P A V T A G L K
490 510 530
AATCTTTGAACCACCAGCTCCAGGAGAAGGCAACTCCAGTCAGAACAGCAGAAATAAGCG
I F E P P A P G E G N S S Q N S R N K R
550 570 590
TGCCGTTTCAGGGTCCAGAAGAAACAGTCACTCAAGACTGCTTGCAACTGATTGCAGACAG
A V Q G P E E T V T Q D C L Q L I A D S

FIG. 1B

610 630 650
 TGAAACACCAACTATACAAAAAGGATCTTACACATTGTTCCATGGCTTCTCAGCTTTAA
 E T P T I Q K G S Y T F V P W L L S F K
 670 690 710
 AAGGGGAAGTGGCCTAGAAGAAAAAGAGAATAAAATATTGGTCAAAGAAACTGGTTACTT
 R G S A L E E K E N K I L V K E T G Y F
 730 750 770
 TTTTATATATGGTCAGGTTTTATATACTGATAAGACCTACGCCATGGGACATCTAATTCA
 F I Y G Q V L Y T D K T Y A M G H L I Q
 790 810 830
 GAGGAAGAAGGTCCATGTCTTTGGGGATGAATTGAGTCTGGTGACTTTGTTTCGATGTAT
 R K K V H V F G D E L S L V T L F R C I
 850 870 890
 TCAAATATGCCTGAAACACTACCCAATAATTCCTGCTATTTCAGCTGGCATTGCAAAACT
 Q N M P E T L P N N S C Y S A G I A K L
 910 930 950
 GGAAGAAGGAGATGAACTCCAACCTTGCAATACCAAGAGAAAATGCACAAATATCACTGGA
 E E G D E L Q L A I P R E N A Q I S L D
 970 990 1010
 TGGAGATGTCACATTTTTTTGGTGCATTGAAACTGCTGTGACCTACTTACACCATGTCTGT
 G D V T F F G A L K L L
 1030 1050 1070
 AGCTATTTTCCTCCCTTTCTCTGTACCTCTAAGAAGAAAGAATCTAACTGAAAATACCAA
 1090 1110 1130
 AAAAAAAAAAAAAAAAAAAAAAGTAGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 1150 1170
 AAAAAAAAAAAAAAAAAAAAACTCGGAGGGGG

FIG. 2A

10 30 50
 GAATTCGGCACGAGCTCCAAAGGCCTAGACCTTCAAAGTGCTCCTCGTGGAATGGATGAG
 M D E
 70 90 110
 TCTGCAAAGACCCTGCCACCACCGTGCTCTGTTTTGCTCCGAGAAAGGAGAAGATATG
 S A K T L P P P C L C F C S E K G E D M
 130 150 170
 AAAGTGGGATATGATCCCATCACTCCGCAGAAGGAGGAGGGTGCTGGTTTGGGATCTGC
 K V G Y D P I T P Q K E E G A W F G I C
 190 210 230
 AGGGATGGAAGGCTGCTGGCTGCTACCCCTCCTGCTGGCCCTGTTGTCCAGCAGTTTCACA
 R D G R L L A A T L L L A L L S S S F T
 250 270 290
 GCGATGTCCTTGTACCAGTTGGCTGCCTTGCAAGCAGACCTGATGAACCTGCGCATGGAG
A M S L Y Q L A A L Q A D L M N L R M E
 310 330 350
 CTGCAGAGCTACCGAGGTTTCAGCAACACCAGCCGCGGGTGCTCCAGAGTTGACCGCT
 L Q S Y R G S A T P A A A G A P E L T A
 370 390 410
 GGAGTCAAACCTCTGACACCGGCAGCTCCTCGACCCCACTCCAGCCGCGGCCACAGG
 G V K L L T P A A P R P H N S S R G H R
 430 450 470
 AACAGACGCGCTTTCCAGGGACCAGAGGAAACAGAACAAGATGTAGACCTCTCAGCTCCT
 N R R A F Q G P E E T E Q D V D L S A P
 490 510 530
 CCTGCACCATGCCTGCCTGGATGCCGCCATTCTCAACATGATGATAATGGAATGAACCTC
 P A P C L P G C R H S Q H D D N G M N L
 550 570 590
 AGAAACATCATTTCAAGACTGTCTGCAGCTGATTGCAGACAGCGACACGCCGACTATACGA
 R N I I Q D C L Q L I A D S D T P T I R

FIG. 2A

FIG. 2B

610 630 650
 AAAGGAAC TTACACAT TTGTTCCAT GGTCTCTCAGCTTT AAAAGAGGAAATGCCTTGGAG
 K G T Y T F V P W L L S F K R G N A L E
 670 690 710
 GAGAAAGAGAACAAAATAGTGGTGAGGCAAACAGGCTATTTCTTCATCTACAGCCAGGTT
 E K E N K I V V R Q T G Y F F I Y S Q V
 730 750 770
 CTATACACGGACCCCATCTTTGCTATGGGTCATGTCATCCAGAGGAAGAAAGTACACGTC
 L Y T D P I F A M G H V I Q R K K V H V
 790 810 830
 TTTGGGGACGAGCTGAGCCTGGTGACCCTGTTCCGATGTATTCAGAATATGCCCAAACA
 F G D E L S L V T L F R C I Q N M P K T
 850 870 890
 CTGCCCAACAATTCCTGCTACTCGGCTGGCATCGCGAGGCTGGAAGAAGGAGATGAGATT
 L P N N S C Y S A G I A R L E E G D E I
 910 930 950
 CAGCTTGCAATTCCTCGGGAGAATGCACAGATTTACGCAACGGAGACGACACCTTCTTT
 Q L A I P R E N A Q I S R N G D D T F F
 970 990 1010
 GGTGCCCTAAAAC TGCTGTAAC TACTTGCTGGAGT GCGTGATCCCCCTCCCTCGTCTTC
 G A L K L L
 1030 1050 1070
 TCTGTACCTCCGAGGGAGAAACAGACGACTGGAAAACTAAAAGATGGGGAAAGCCGTCA
 1090 1110 1130
 GCGAAAGTTTTCTCGTGACCCGTTGAATCTGATCCAAACCAGGAAATATAACAGACAGCC
 1150 1170 1190

1100
 1110
 1120
 1130
 1140
 1150
 1160
 1170
 1180
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 1200
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 1370
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 1390
 1400
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 1600
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 1950
 1960
 1970
 1980
 1990
 2000

	151	B	200
Hagp3VTODCLO LIADSETPTI	QKGSYTFVFPW
Magp3	PPAPCLPGCR HSQHDDNGMN	LRNIIODCLO LIADSDTPTI	RKGTYYTFVFPW
consQDCLO LIADS.TPTI	.KG.YTFVFPW

	B'	C'	C	D	E	250
Hagp3	<u>LLSFKRG</u> SAL	<u>EEKEN</u> KILVK	ETGYFFFIYGO	VLYTDKTYAM	<u>GH</u> LIQRKKVH	
Magp3	<u>LLSFKRG</u> NAL	<u>EEKEN</u> KIVVR	QTGYFFFIYSO	VLYTDPIFAM	<u>GH</u> VIQRKKVH	
cons	LLSFKRG.AL	EEKENKI.V.	.TGYYFFFIY.Q	VLYTD...AM	GH.IQRKKVH	

	251	F	G	H	300
Hagp3	VFGDELSLVT	LFRCIQNMP	TLPNNSCYSA	GIKLEEGDE	LQLAIPRENA
Magp3	VFGDELSLVT	LFRCIQNMPK	TLPNNSCYSA	GIARLEEGDE	IQLAIPRENA
cons	VFGDELSLVT	LFRCIQNMP.	TLPNNSCYSA	GIA.LEEGDE	.QLAIPRENA

	301	I	317
Hagp3	QISLDGDVTF	<u>FGALKLL</u>	
Magp3	QISRNGDDTF	<u>FGALKLL</u>	
cons	QIS..GD.TF	FGALKLL	

FIG. 4A

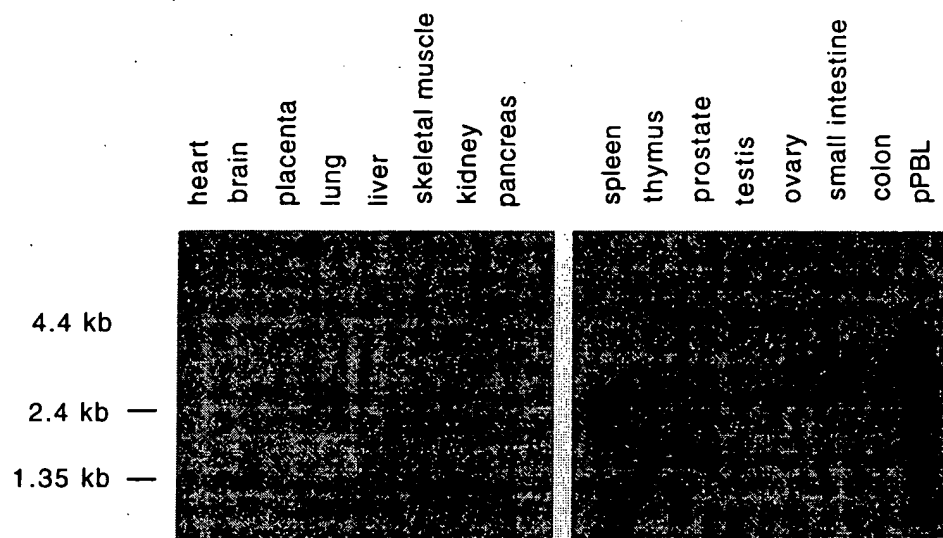


FIG. 4B

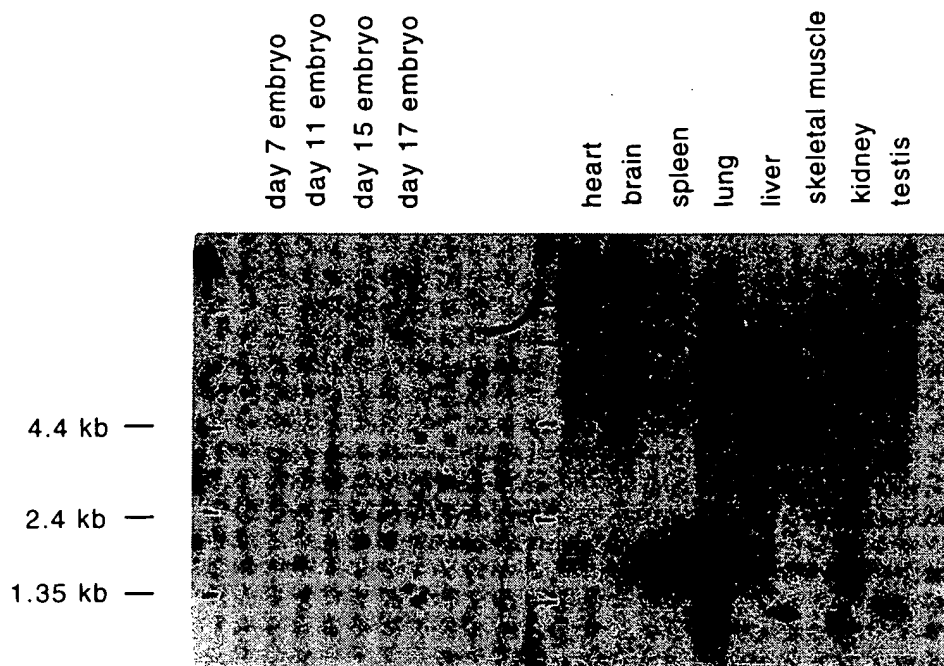


FIG. 5A



FIG. 5B

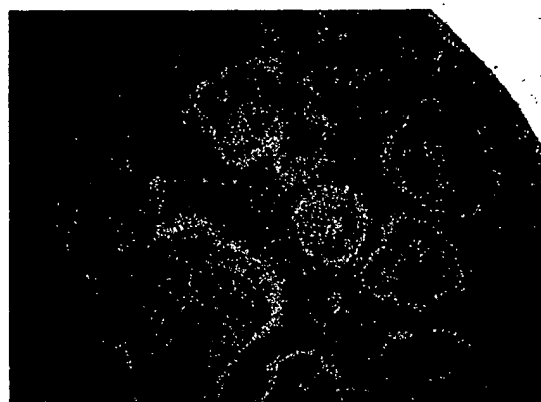


FIG. 5C

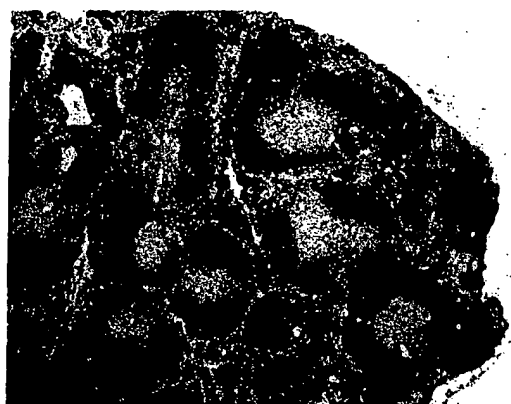


FIG. 5D

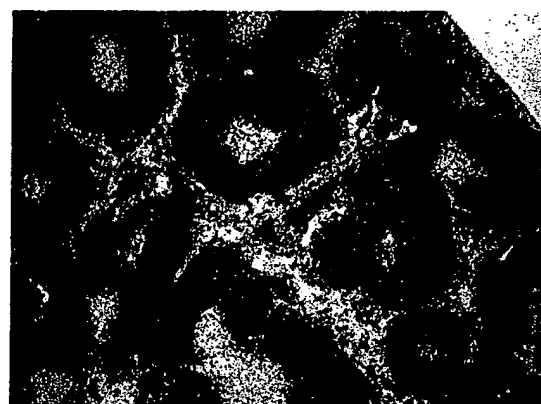


FIG. 5E



FIG. 5F

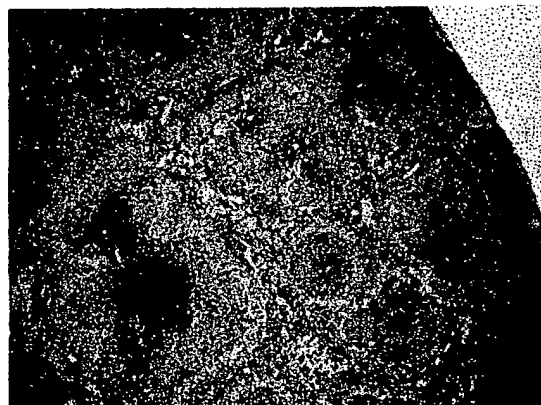


FIG. 6A

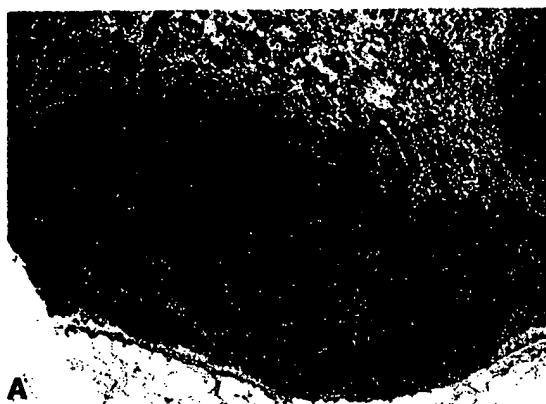


FIG. 6B

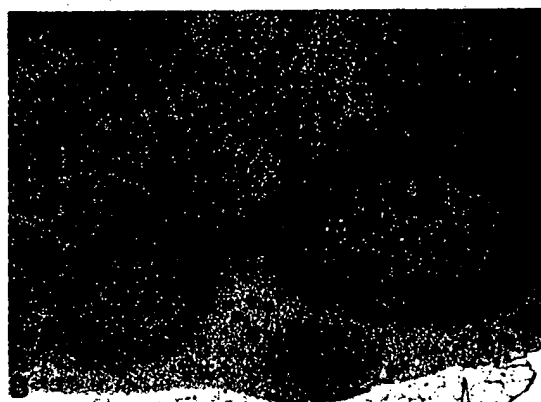


FIG. 6C



FIG. 6D

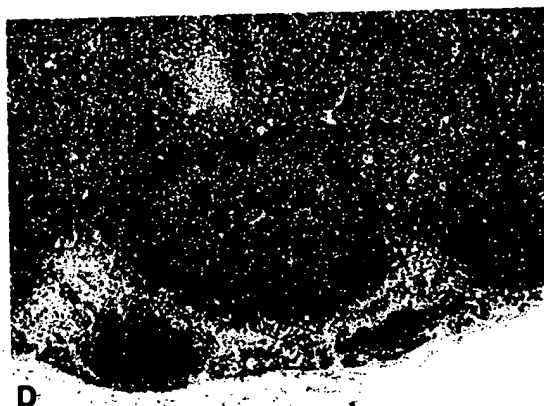


FIG. 6E



FIG. 6F

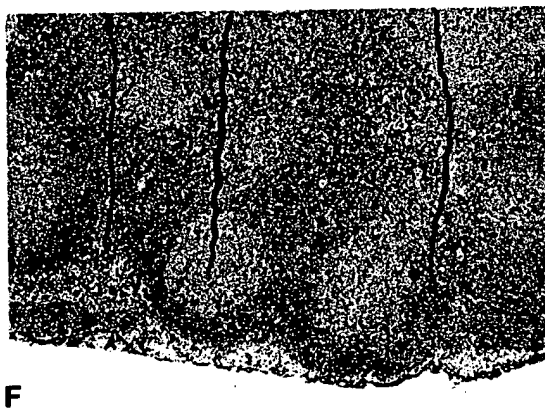


FIG. 7A

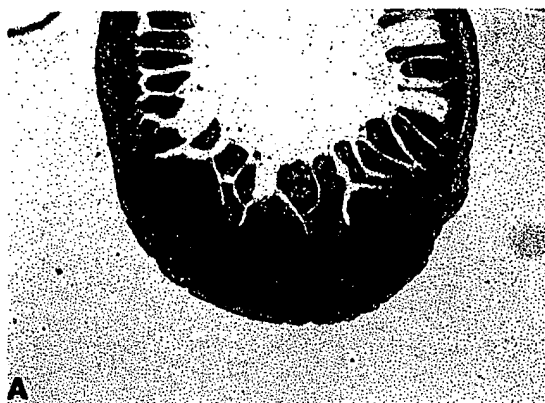


FIG. 7B



FIG. 7C



FIG. 7D



FIG. 7E



FIG. 7F



FIG. 8A

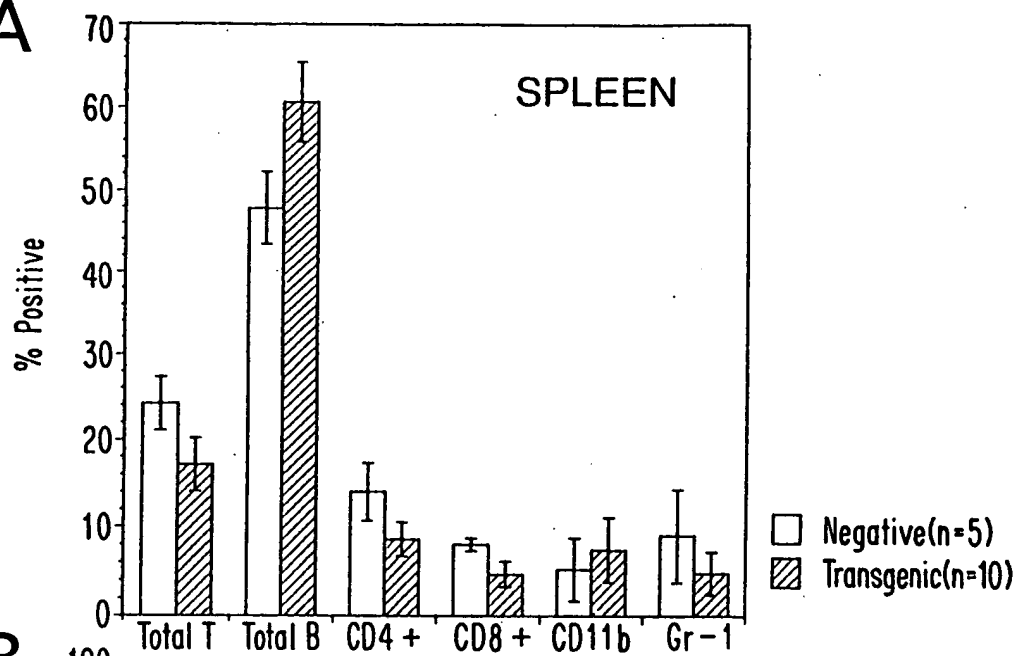


FIG. 8B

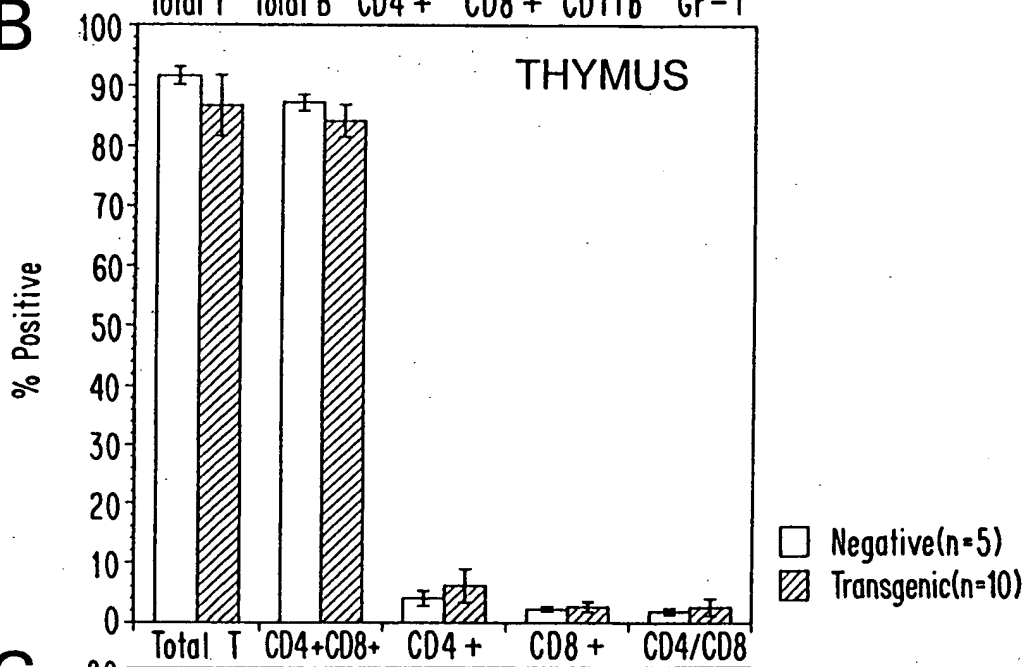


FIG. 8C

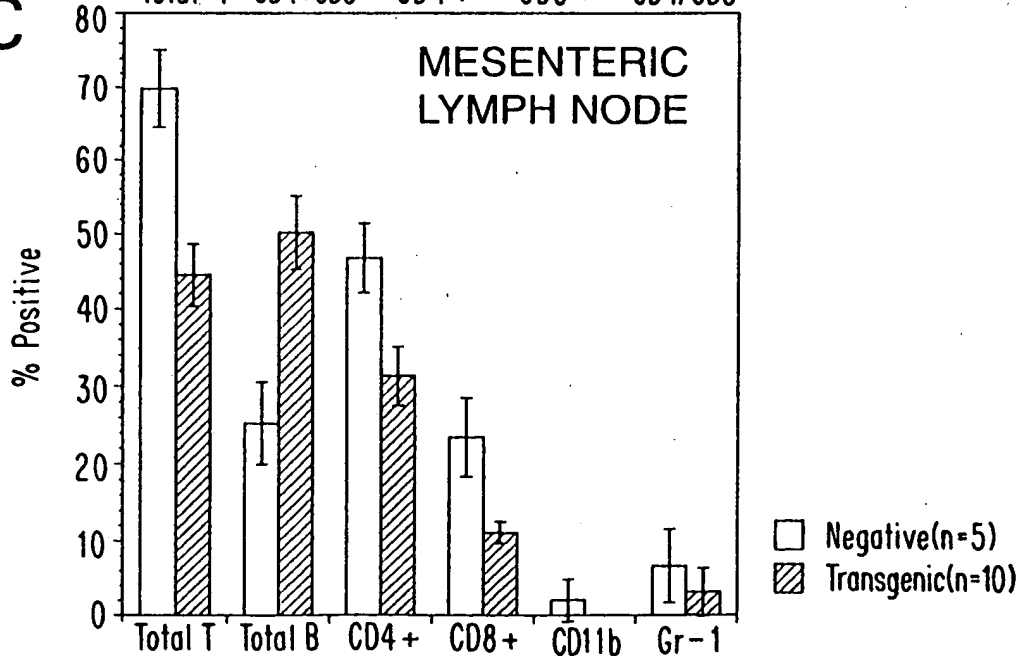


FIG. 9A

	B	B/B' loop	B'	C'	C	D	D/E loop	E	Consensus
139-	-----+PAAHLT--P-----	-----L-W-----	-----A-LS-GV-L-N-----	-----LVW-----	-----GLYFIYSQV-F+GQ-CP-----	-----V-L			Human FasL
137-	EKKELRKVAHLTGKSN-----	-----SRS-MPEWEDTYGI-----	-----VLLS-GVKYKK-----	-----GGLVINETGLYFVYSKVYFRGQSCN-----	-----NLPL				Mouse FasL
136-	EKKEPRSVAHLTGPH-----	-----SRS-IPLEWEDTYGT-----	-----ALIS-GVKYKK-----	-----GGLVINETGLYFVYSKVYFRGQSCN-----	-----NQPL				Rat FasL
116-	ETKKPRSVAHLTGPR-----	-----SRS-IPLEWEDTYGT-----	-----ALIS-GVKYKK-----	-----GGLVINEAGLYFVYSKVYFRGQSCN-----	-----SQPL				Human CD40L
115-	GDQNPQIAAHVISEASS-----	-----KTT-SVLQWAEKGYI-----	-----TMSNNLVTLENG-KQLTVKRQGLYIYAQVTFCSNREA-----	-----SSQAPF					Mouse CD40L
142-	GDEDPQIAAHVSEANS-----	-----NAA-SVLQWAKKGYI-----	-----TMKSNLVMLENG-KQLTVKRGLYIYAQVTFCSNREP-----	-----SSQRPF					Human AGP3
143-	---VTQDCIQLIADSETPTIQ-----	-----KGSY---TFVPWLLSFKR-GSALE-----	-----EKEN---KIL-VKETGYFFIYGQVLYT-DKT-----	-----YAMGHL					Mouse AGP3
163-	LRNIIQDCIQLIADSDTPTIR-----	-----KGTY---TFVPWLLSFKR-GNALE-----	-----EKEN---KI-VWRQTGYFFIYSQVLYT-DPI-----	-----FAMGHV					Mouse OPGL
157-	GKPEAQPFVAHLTINAASIP-----	-----SGSHKVTLSWYHDSRW-----	-----AKISN-MTISNG-K-LRVNQDGFYLYANICFRHHETS-----	-----GSVPTD					Human OPGL
158-	SKLEAQPFVAHLTINATDIP-----	-----SGSHKVTLSWYHDSRW-----	-----AKISN-MTFSNG-K-LIVNQDGFYLYANICFRHHETS-----	-----GDLATE					Human TRAIL
116-	ERGPQVAAHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSRGH-SFLSN-LHLRNG-E-LVIEHEKGFYIYSQTYFRFQEE-----	-----IKENT							Mouse TRAIL
120-	GGRPQKVAHITGITRRSNSALIPISKDGKTLGQKIESWESSRKGGH-SFLNH-VLFRNG-E-LVIEQEGLYIYSQTYFRFQEAEDASKMVSVDL-----	-----NNNSVDL							Human CD30L
92-	RAPFKKSWAYLQVAKH-----	-----LNK-TKLSWKNKG-----	-----ILH-GVRYQD-----	-----GNLVIQFPGLYFIICQLQFLVQ-CP-----	-----NNSVDL				Mouse CD30L
97-	STPSKKSWAYLQVSKH-----	-----LMN-TKLSWNEDEG-----	-----TIH-GLIYQD-----	-----GNLIVQFPGLYFIICQLQFLVQ-CS-----	-----NHSVDL				Human Lytβ
82-	DLSPGLPAAHLIGAP-----	-----LKGQ-GLGWETTKEQ-----	-----AFLTSGTQFSDA-EGLALPQDGLYLYLCLVGYRGRAPPGGGDPQGRSV-----						Mouse Lytβ
148-	DLNPGLPAAHLIGAW-----	-----MSGQ-GLSWEASQEE-----	-----AFLRSGAQFSPT-HGLALPQDGVVYLYLCHVGYRGRTPPA-GRSRARSL-----						Human TNFβ
57-	AHSTLKPAAHLIGDP-----	-----SKQNS-LLWRANTDR-----	-----AFLQDGFSLN ⁸ -----	-----NSLLVPTSGIYFVYSQVVFSGKAYSPKATSSPLYL-----					Mouse TNFβ
54-	THGILKPAAHLVGYP-----	-----SKQNS-LLWRASTDR-----	-----AFLRHGFSLSN-----	-----NSLLIPTSGLYFVYSQVVFSGESCSPIPTPIYL-----					Human TNFα
82-	RTPSDKPVAHVANP-----	-----QAEQG-LQWLNRAN-----	-----ALLANGVELRD-NQLVVPSEGLYIYSQVLFKGGQCP-----	-----STHVLL					Mouse TNFα
85-	QNSDDKPVAHVANH-----	-----QVEEQ-LEWLSQRAN-----	-----ALLANGMDLKD-NQLVVPADGLYLYVLSQVLFKGGQCP-----	-----DYVLL					

FIG. 9B

	E	E/F loop	F	F/G loop	G	H	H/I loop	I	
08-	H-V--V--	Y-P--L-L-S--	T--C--	W--S-YLGGVF-L--	GD-LYVNV--	S--F--	----	----	Consensus
06-	SHKVYMRNS	KYPQDLVMMEGKMSYC	----	TTGQMWARSSYLGA	VMTSADHLV	VMSVSEL	SVNFEESQ	----	Human FasL
05-	NHKVYMRNS	KYPEDLVLMEEKRLNYC	----	TTGQIWAHSSYLGA	VMTSADHLV	VNISQLS	LINFEESK	----	Mouse FasL
05-	SHKVYMRNF	KYPGDLVLMEEKRLNYC	----	TTGQIWAHSSYLGA	VMTSADHLV	VNISQLS	LINFEESK	----	Rat FasL
90-	IASLCLKS	PGRFERILLRAANTHSSAKPC	----	QQQSIHLGGVFEL	QPGASVFN	VTDP	SQVSHGTGF	----	Human CD40L
89-	IVGLWLKP	SIGSERILLKAANTHSSQLC	----	EQQSVHLGGVFEL	QAGASVFN	VTDP	SQVSHGTGF	----	Mouse CD40L
12-	IQRKKVHV	FGDELSLVTFRCIQNMPTL	----	P--NNSCYSAGIA	KLEEGDELQ	LAI	PRENAQI	SLDGDVTF	Human AGP3
36-	IQRKKVHV	FGDELSLVTFRCIQNMPTL	----	P--NNSCYSAGIA	KLEEGDELQ	LAI	PRENAQI	SLDGDVTF	Mouse AGP3
34-	YLQLMVYVVKTSI	KIPSSHNLKMGGS	TKNWSGN	SE--FHYSINVG	FFKLRAGEE	ISIQVSN	PSLLDP	QDA--TYFGAFK	Mouse OPGL
35-	YLQLMVYVVKTSI	KIPSSHNLKMGGS	TKNWSGN	SE--FHYSINVG	FFKLRAGEE	ISIQVSN	PSLLDP	QDA--TYFGAFK	Human OPGL
01-	K-NDKQMVQYIYKYTSY	PDPIILMKSARN	CSWSKD	AE--YGLYSIYQ	GGIFELKEND	RI	FVSVTNEH	LIDMDHEA--SFFGAF	Human TRAIL
10-	KVRTKQLVQYIYKYTSY	PDPIILMKSARN	CSWSKD	AE--YGLYSIYQ	GGIFELKEND	RI	FVSVTNEH	LIDMDHEA--SFFGAF	Mouse TRAIL
59-	KLELLIN	-----	-----	KHIKKQALVTVCESGMQTK	-----	HVYQNLSQ	FLLDYLVQVNTTISV	NVDTFQYIDTSTFFPLEN	Human CD30L
64-	TLQLLIN	-----	-----	SKIKKQTLVTVCESGVQSK	-----	NIYQNLSQ	FLLDYLVQVNTTISV	RVDNFQYVDTNTFFPLDN	Mouse CD30L
58-	TLRSSLYRAGGA	YGPGTPELLLEGAETVTP	VLDPARRQCYG	PLWYTSVGF	GGLVQLRRGERV	VVNI	SHPD	MVDFARGK--TFFGAV	Human Lytβ
23-	TLRSALYRAGGA	YGRGSPPELLLEGAETVTP	WDPPI	-----	GYGSLWYTSV	GFGLAQLRSGERV	VVNI	SHPD	Mouse Lytβ
32-	AHEVQLFSS	-----	QYPFHVPLLS	SQKMYVP	-----	GLQEPWLHSMYHGA	AFAQLTQGDQL	STHTDGI	Human TNFβ
29-	AHEVQLFSS	-----	QYPFHVPLLS	SAQKSVYP	-----	GLQGPWVRSMYQ	GAFAVLLSKGDQL	STHTDGI	Mouse TNFβ
53-	THTISRIV	-----	SYQTKVNL	LSAIPKSPQRETP	EG--AEAKPWYEP	ILYLG	GVFQLEKGR	DL	Human TNFα
55-	THTVSRFAI	-----	SYQEKVNL	LSAVKSPCKDTP	EG--AELKPWYEP	ILYLG	GVFQLEKGR	DL	Mouse TNFα

FIG. 10A FIG. 10D FIG. 10G

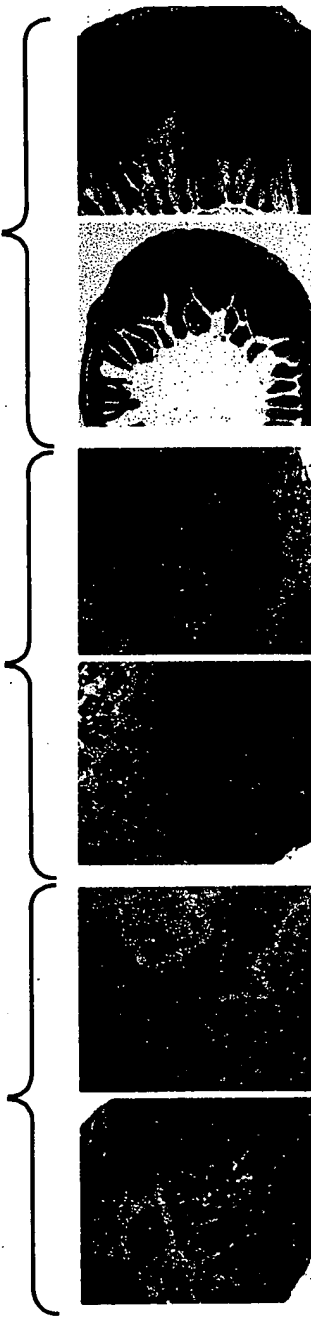


FIG. 10B FIG. 10E FIG. 10H

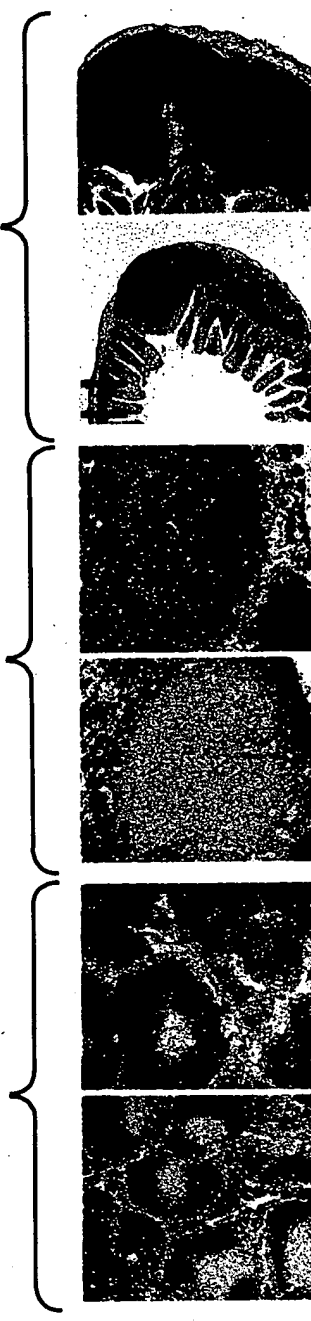


FIG. 10C FIG. 10F FIG. 10I

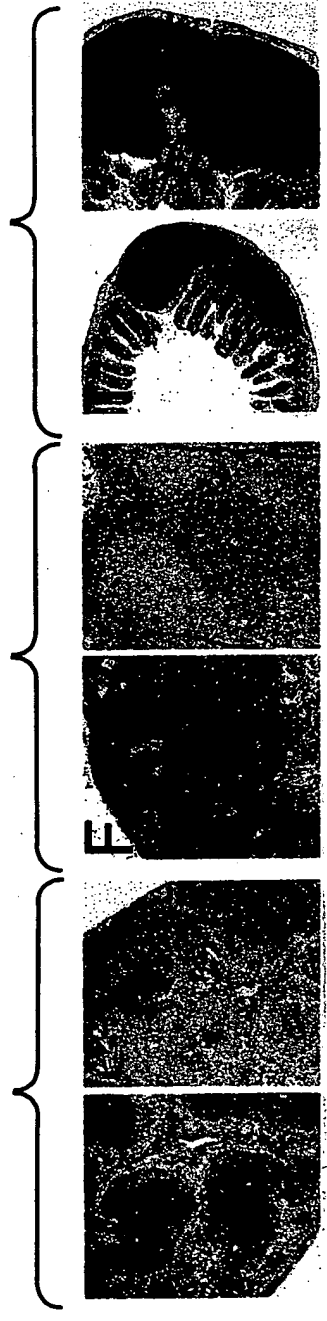


FIG. 11A

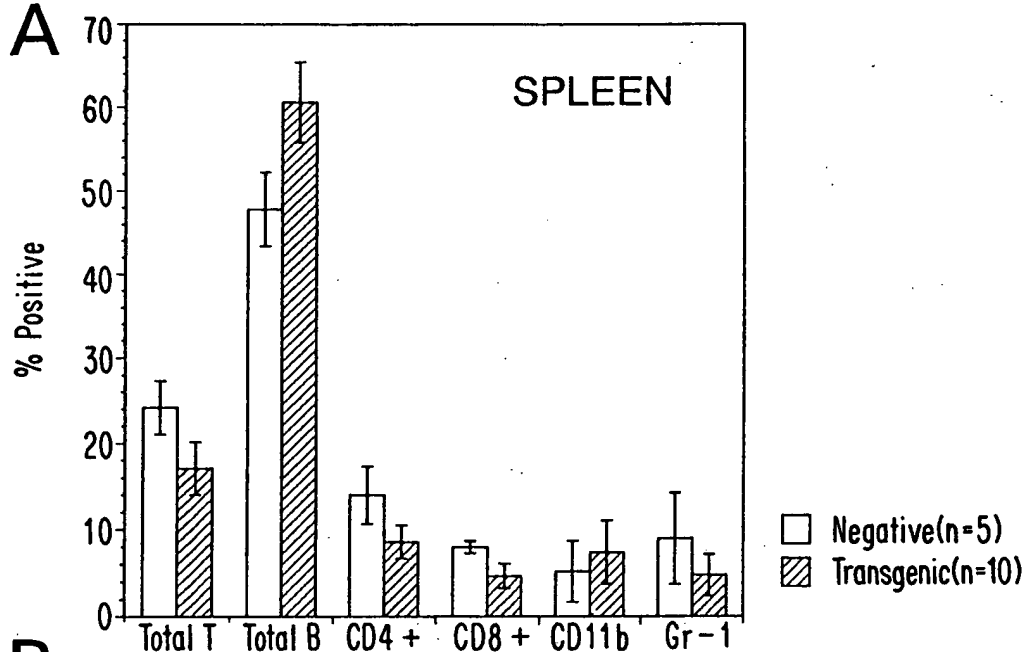


FIG. 11B

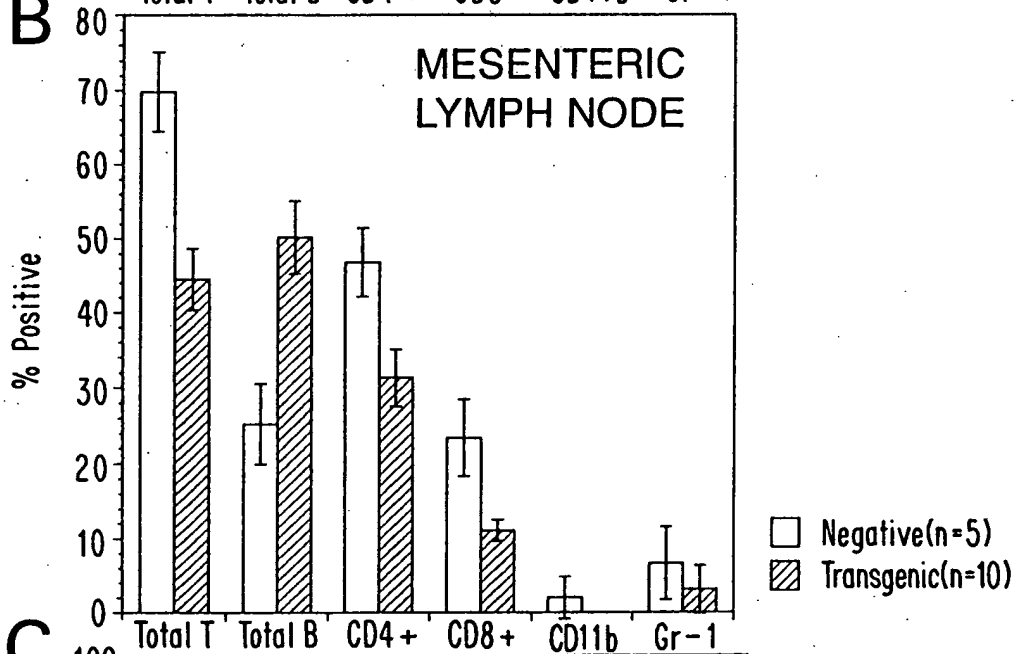


FIG. 11C

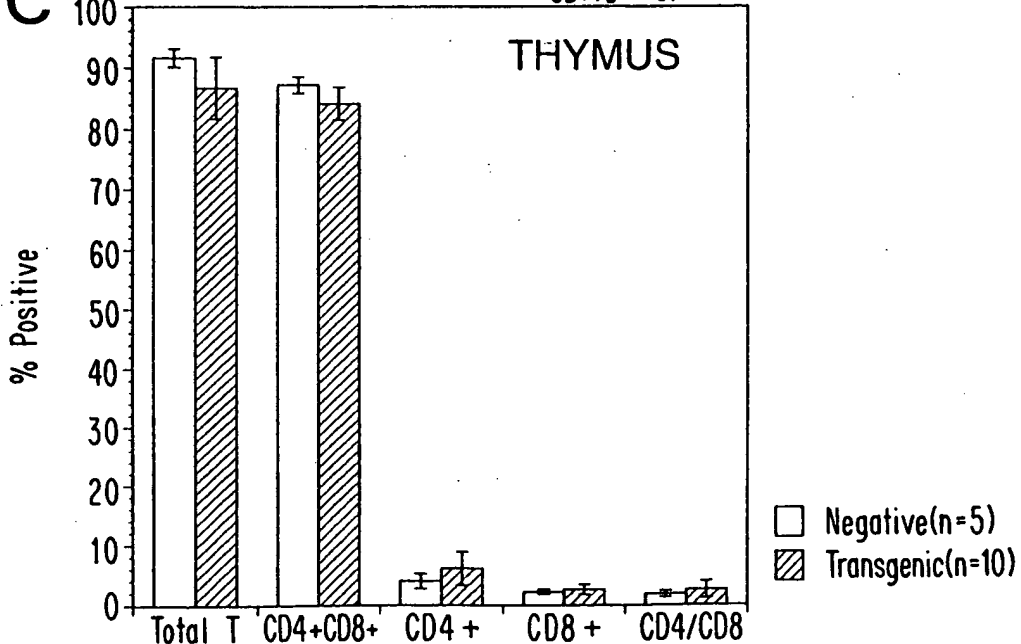


FIG. 12A

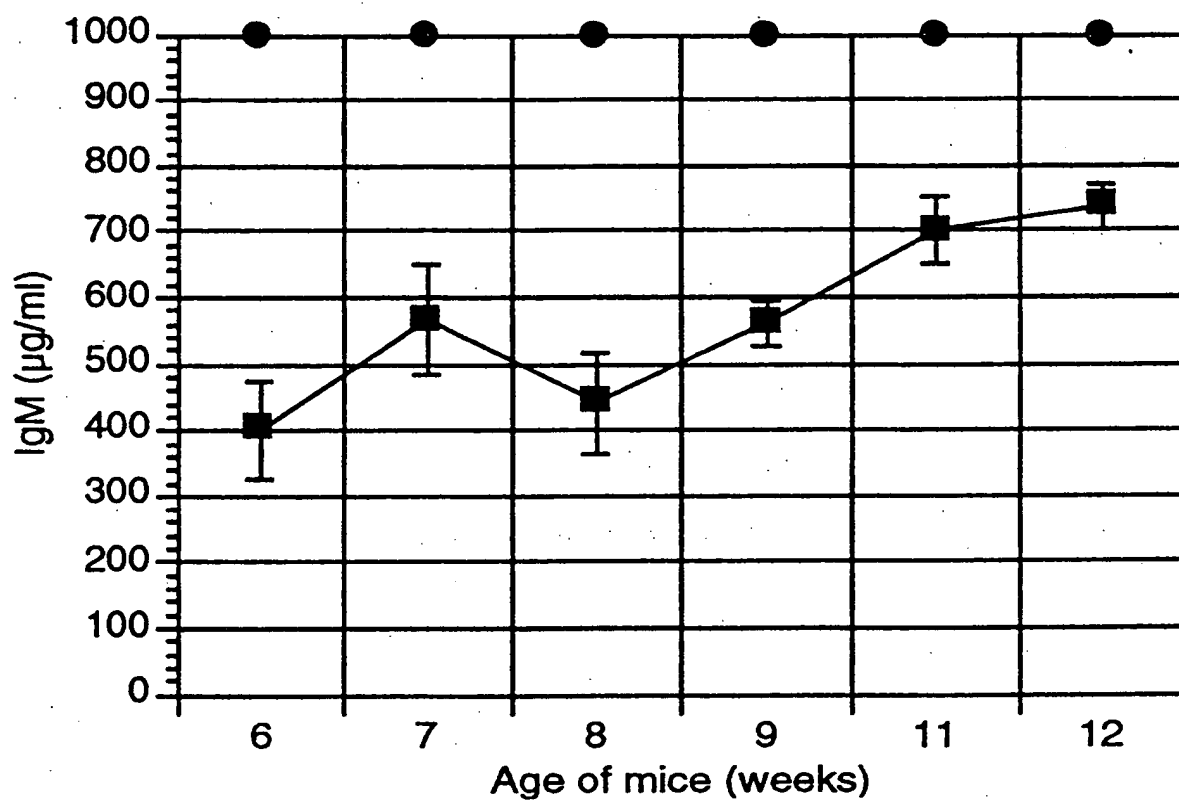


FIG. 12B

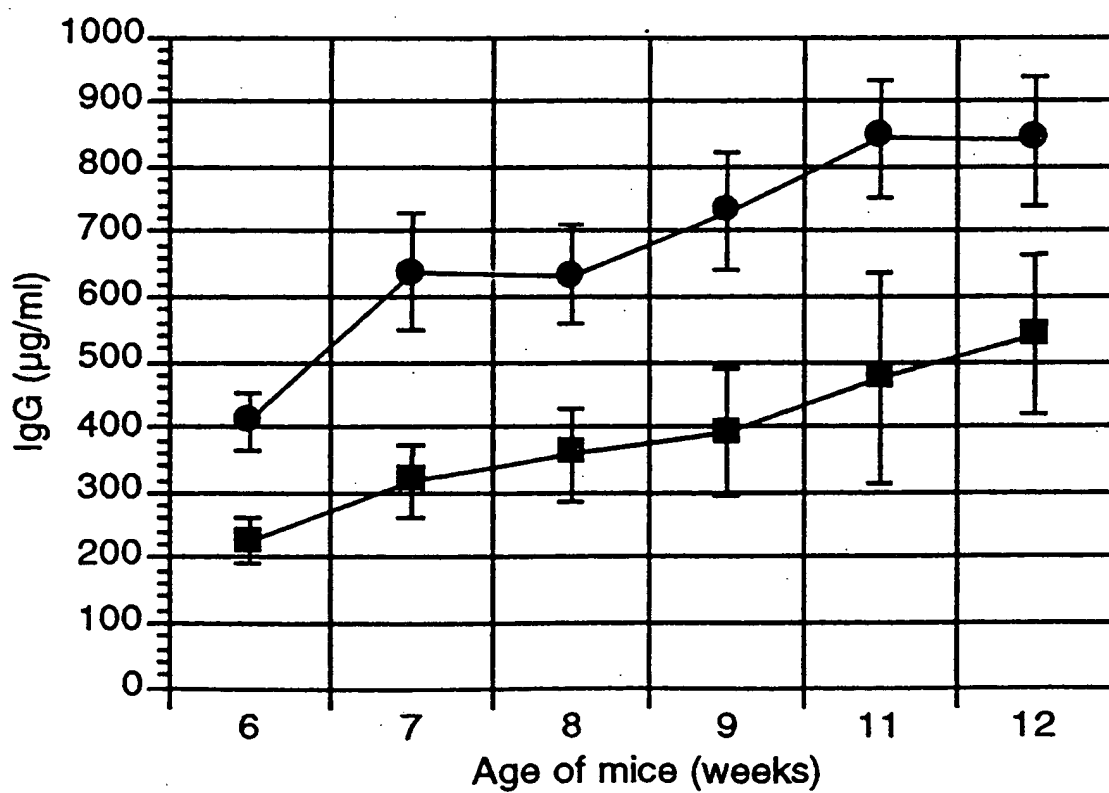


FIG. 12C

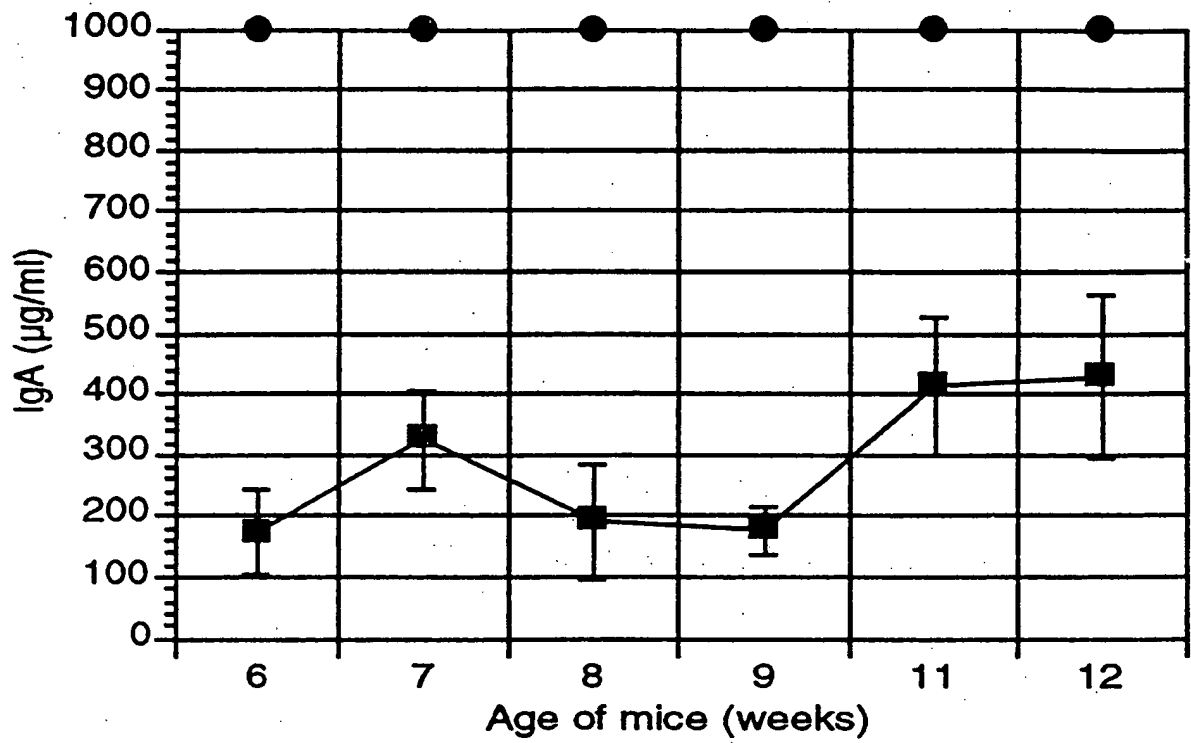


FIG. 12D

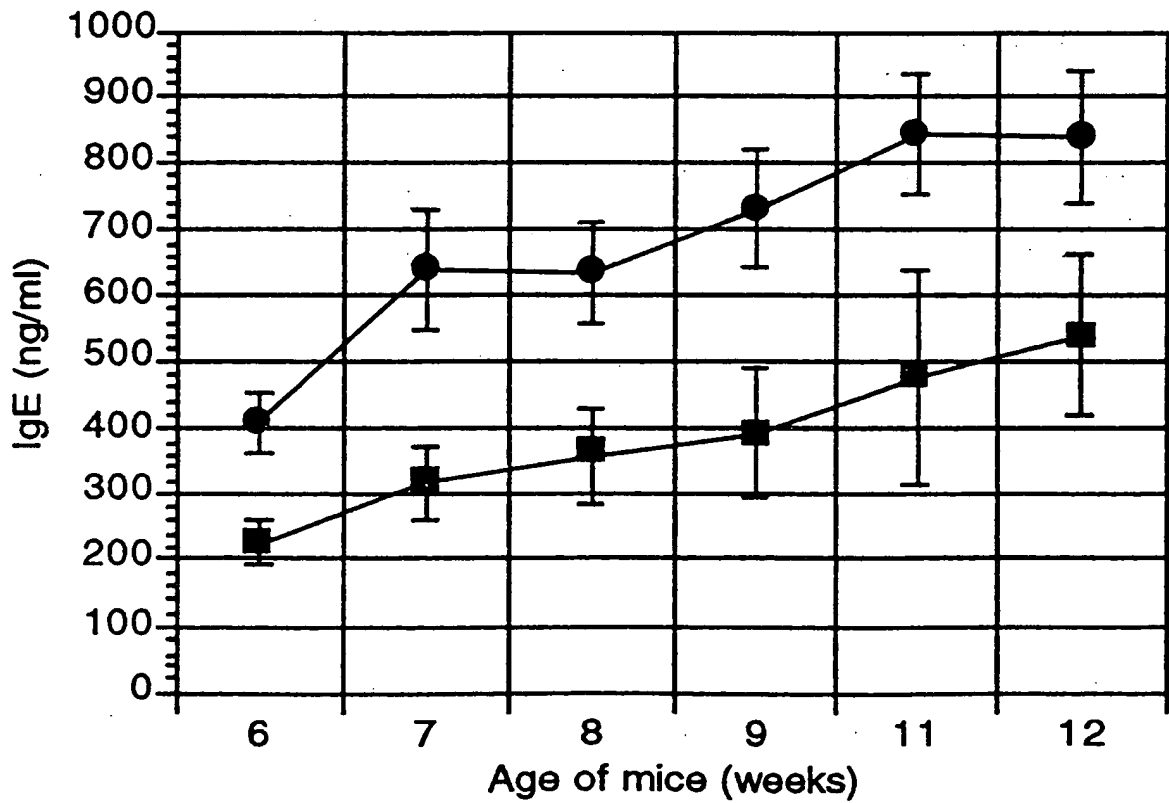


FIG. 13A

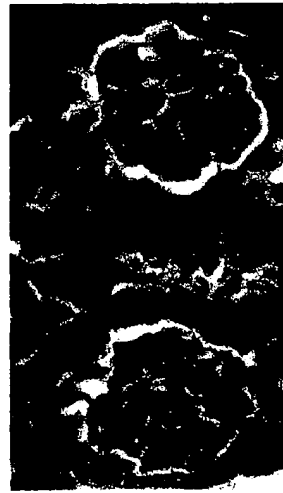


FIG. 13D

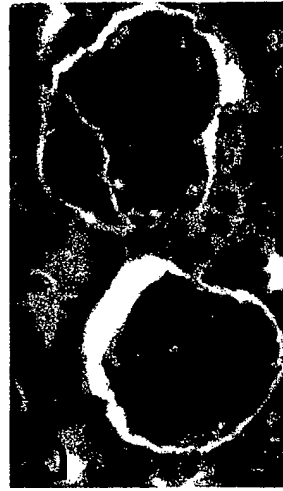


FIG. 13G



FIG. 13B



FIG. 13E



FIG. 13H



FIG. 13C



FIG. 13F



FIG. 13I



FIG. 14A

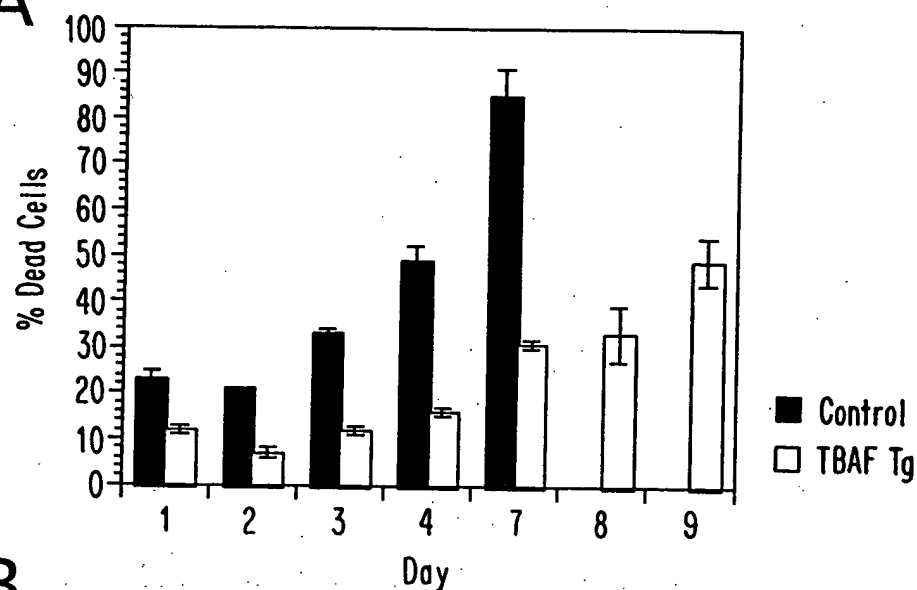


FIG. 14B

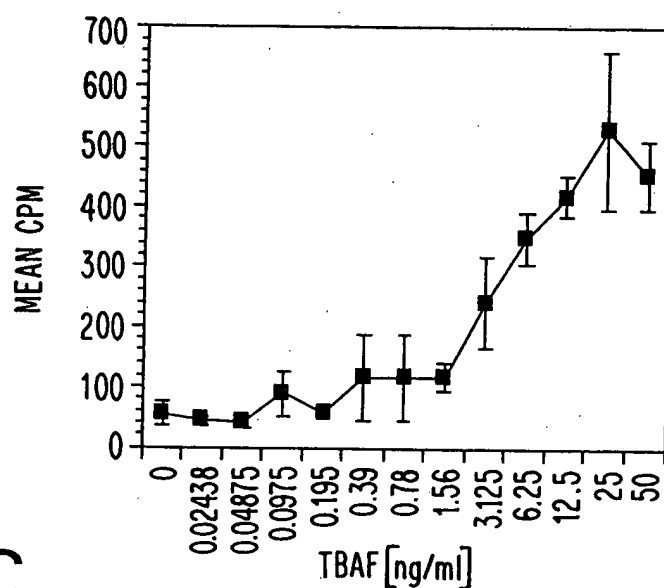


FIG. 14C

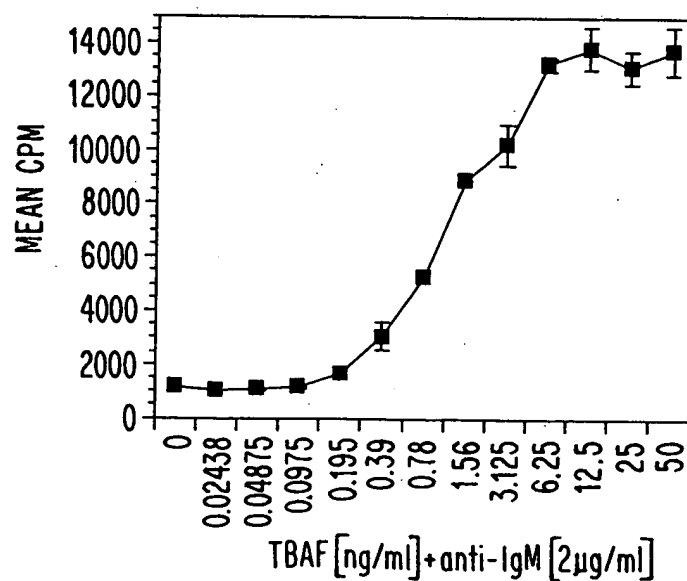


FIG. 15

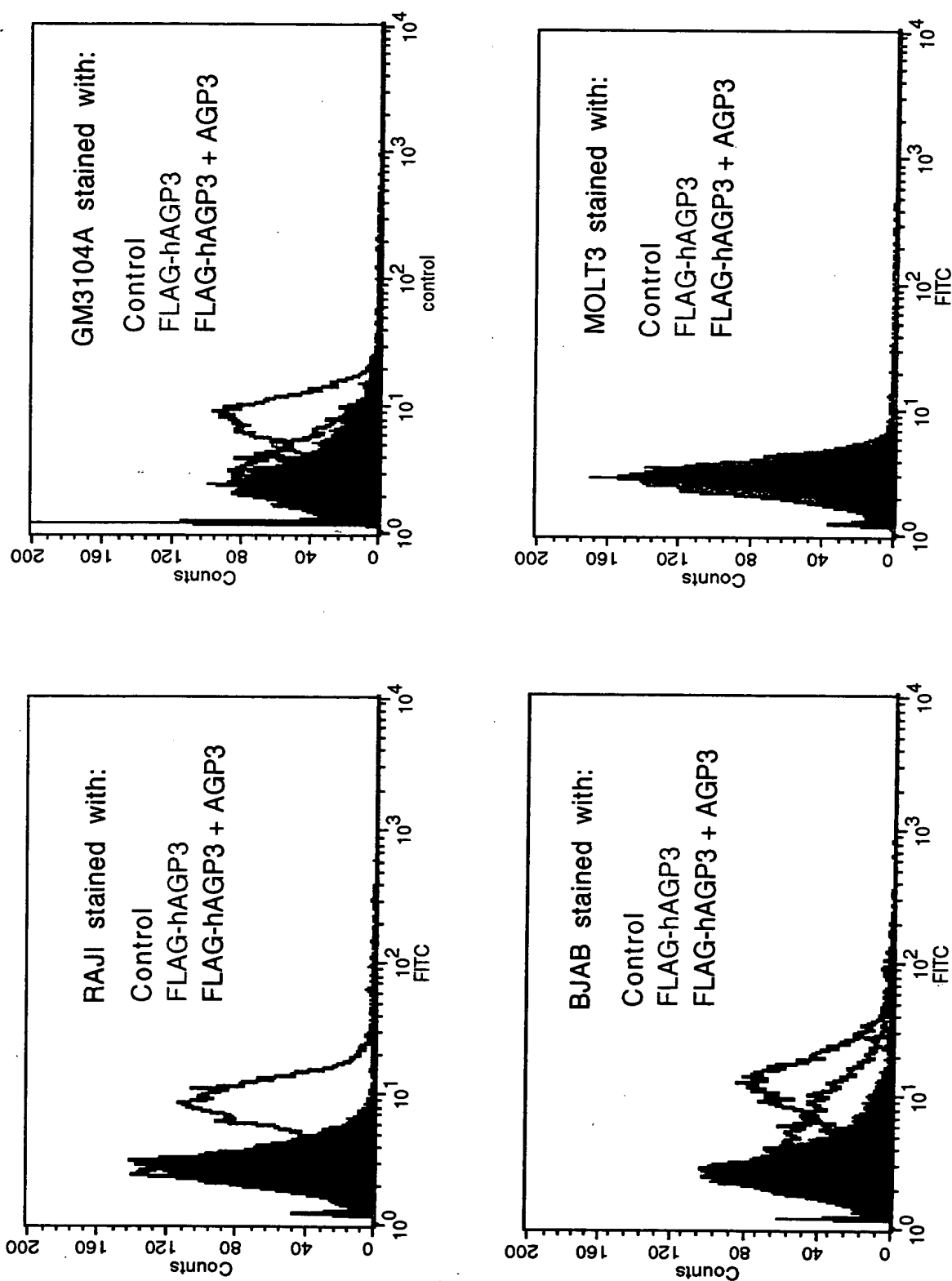


FIG. 16

Alignment of AGP3-binding pools 13B4 and 13H11
N-terminal sequence

```

1  GTCGACCCACGCGTCCG.....ATCCTGAGTAATGAGTGGCCTGGGCC 43
   |||||||||||||||||
1  GTCGACCCACGCGTCCGAATAAGCATCCTGAGTAATGAGTGGCCTGGGCC 50

44 GGAGCAGGCGAGGTGGCCGGAGCCGTGTGGACCAGGAGGAGCGCTTTCCA 93
   |||||||||||||||||||
51 GGAGCAGGCGAGGTGGCCGGAGCCGTGTGGACCAGGAGGAGCGCTTTCCA 100

94 CAGGGCCTGTGGACAGGGGTGGCTATGAGATCCTGCCCCGAAGAGCAGTA 143
   |||||||||||||||||||
101 CAGGGCCTGTGGACAGGGGTGGCTATGAGATCCTGCCCCGAAGAGCAGTA 150

144 CTGGGATCCTCTGCTGGGTACCTGCATGTCCTGCAAAACCATTGTGCAACC 193
   |||||||||||||||||||
151 CTGGGATCCTCTGCTGGGTACCTGCATGTCCTGCAAAACCATTGTGCAACC 200

194 ATCAGAGCCAGCGCACCTGTGCAGCCTTCTGCAGGTCACTCAGCTGCCGC 243
   |||||||||||||||||||
201 ATCAGAGCCAGCGCACCTGTGCAGCCTTCTGCAGGTCACTCAGCTGCCGC 250

244 AAGGAGCAAGGCAAGTTCTATGACCATCTCCTGAGGGACTGCATCAGCTG 293
   |||||||||||||||||||
251 AAGGAGCAAGGCAAGTTCTATGACCATCTCCTGAGGGACTGCATCAGCTG 300

294 TGCCTCCATCTGTGGACAGCACCCCTAAGCAATGTGCATACTTCTGTGAGA 343
   |||||||||||||||||||
301 TGCCTCCATCTGTGGACAGCACCCCTAAGCAATGTGCATACTTCTGTGAGA 350

344 ACAAGCTCAGGAGCCCAGTGAACCTTCCACCAGAGCTCAGGAGACAGCGG 393
   |||||||||||||||||||
351 ACAAGCTCAGGAGCCCAGTGAACCTTCCACCAGAGCTCAGGAGACAGCGG 400

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13B4 13H11

FIG. 17

Human AGP3 receptor sequence

GTCGACCCACGCGTCCGATCCTGAGTAATGAGTGGCCTGGGCCGGAGCAGGCGAGGTGGC
M S G L G R S R R G G
CGGAGCCGTGTGGACCAGGAGGAGCGCTTTCCACAGGGCCTGTGGACAGGGGTGGCTATG
R S R V D Q E E R F P Q G L W T G V A M
AGATCCTGCCCCGAAGAGCAGTACTGGGATCCTCTGCTGGGTACCTGCATGTCCTGCAAA
R S C P E E Q Y W D P L L G T C M S C K
ACCATTGTGAACCATCAGAGCCAGCGCACCTGTGCAGCCTTCTGCAGGTCACTCAGCTGC
T I C N H Q S Q R T C A A F C R S L S C
CGCAAGGAGCAAGGCAAGTTCTATGACCATCTCCTGAGGGACTGCATCAGCTGTGCCTCC
R K E Q G K F Y D H L L R D C I S C A S
ATCTGTGGACAGCACCCCTAAGCAATGTGCATACTTCTGTGAGAACCAAGCTCAGGAGCCCA
I C G Q H P K Q C A Y F C E N K L R S P
GTGAACCTTCCACCAGAGCTCAGGAGACAGCGGAGTGGAGAAGTTGAAAAAATTCAGAC
V N L P P E L R R Q R S G E V E N N S D
AACTCGGGAAGGTACCAAGGACTGGAGCACAGAGGCTCAGAAGCAAGTCCAGCTCTCCCC
N S G R Y Q G L E H R G S E A S P A L P
GGGCTGAAGCTGAGTGCAGATCAGGTGGCCCTGGTCTACAGCACGCTGGGGCTCTGCCTG
G L K L S A D Q V A L V Y S T L G L C L
TGTGCCGTCTCTGCTGCTTCTGGTGGCGGTGGCCTGCTTCTCAAGATGAGGGGGGAT
C A V L C C F L V A V A C F L K M R G D
CCCTGCTCCTGCCAGCCCCGCTCAAGGCCCGCTCAAAGTCCGGCCAAGTCTTCCCAGGAT
P C S C Q P R S R P R Q S P A K S S Q D
CACGCGATGGAAGCCGGCAGCCCTGTGAGCACATCCCCGAGCCAGTGGAGAÇCTGCAGC
H A M E A G S P V S T S P E P V E T C S
TTCTGCTTCCCTGAGTGCAGGGCGCCCACGCAGGAGAGCGCAGTCACGCCTGGGACCCCC
F C F P E C R A P T Q E S A V T P G T P
GACCCCACTTGTGCTGGAAGGTGGGGGTGCCACACCAGGACCACAGTCCTGCAGCCTTGC
D P T C A G R W G C H T R T T V L Q P C
CCACACATCCCAGACAGCGGCCTTGGCATTGTGTGTGTGCCTGCCCAGGAGGGGGGCCCA
P H I P D S G L G I V C V P A Q E G G P
GGTGCATAAATGGGGGTCAGGGAGGGAAAGGAGGAGGGAGAGAGATGGAGAGGAGGGGAG
G A
AGAGAAAAGAGAGGTGGGGAGAGGGGAGAGAGATATGAGGAGAGAGAGACAGAGGAGGCAG
AGAGGGAGAGAAAACAGAGGAGACAGAGAGGGAGAGAGAGACAGAGGGAGAGAGAGACAGA
GAGGAAGAGAGGCAGAGAGGGAAAGAGGCAGAGAAGGAAAGAGACAGGCAGAGAAGGAGA
GAGGCAGAGAGGGAGAGAGGCAGAGAGGGAGAGAGGCAGAGAGACAGAGAGGGAGAGAGG
GACAGAGAGAGATAGAGCAGGAGGTCTGGGGCACTCTGAGTCCCAGTCCCAGTGCAGCTG
TAGGTCGTATCACCTAACCACACGTGCAATAAAGTCCTCGTGCCTGCTGCTCACAGCCC
CCGAGAGCCCCCTCCTCCTGG

AGP3 receptor protein structure

SCPEEQYWDPLLGTCTMSCKTICNHQSQRTCAAFCRSL	I
SCRKEQGKFYDHLRLDCISCASICGQHPKQCAYFCENK	II
LRSPVNLPPELRRQRSGEVENNSDNSGRYQGLEHRGSE	stalk
ASPALPGLKLSADQVAVYS	
<u>TLGLCLCAVLCCFLVAVACFL</u>	TM
KMRGDPCSCQPRSRPRQSPAKSSQDHAMEAGSPVSTSP	IC
EPVETCSFCFPECRAPTQESAVTPGTPDTCAGRWGCHT	
RTTVLQPCPHIPDSGLGIVCVPAQEGGPGA	

Station	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364</
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10 20 30 40 50 60
 LGRRRGGRSRVDQEERFPQGLWTGVAMRSCPEEQYWDPLLGTTCMSCKTICNHQS-QR AGP3R
 ||: :| | :: | | | |: :
 VLLELLVGIYPSGVIGLVPHLGDREKRDSVCPQGGYIHPQNNSIC--C-TKCHKGTLYLN TNFR1
 20 30 40 50 60 70
 70 80 90 100 110
 TCAAFCSRSLSCRK-EQGKF-YDHLRLDCISCASICGQHPKQCAFYFCENKLRSPVNLPPPE AGP3R
 | : :: :||: |:|:| :: || |:| | | : : |
 DCPGPGQDQDCRECEGSFTASENHLRHCLSC-SKCRKEMGQVEISSCTVDRDRTVCGCRK TNFR1
 80 90 100 110 120

FIG. 20

Human AGP3 receptor mRNA tissue distribution

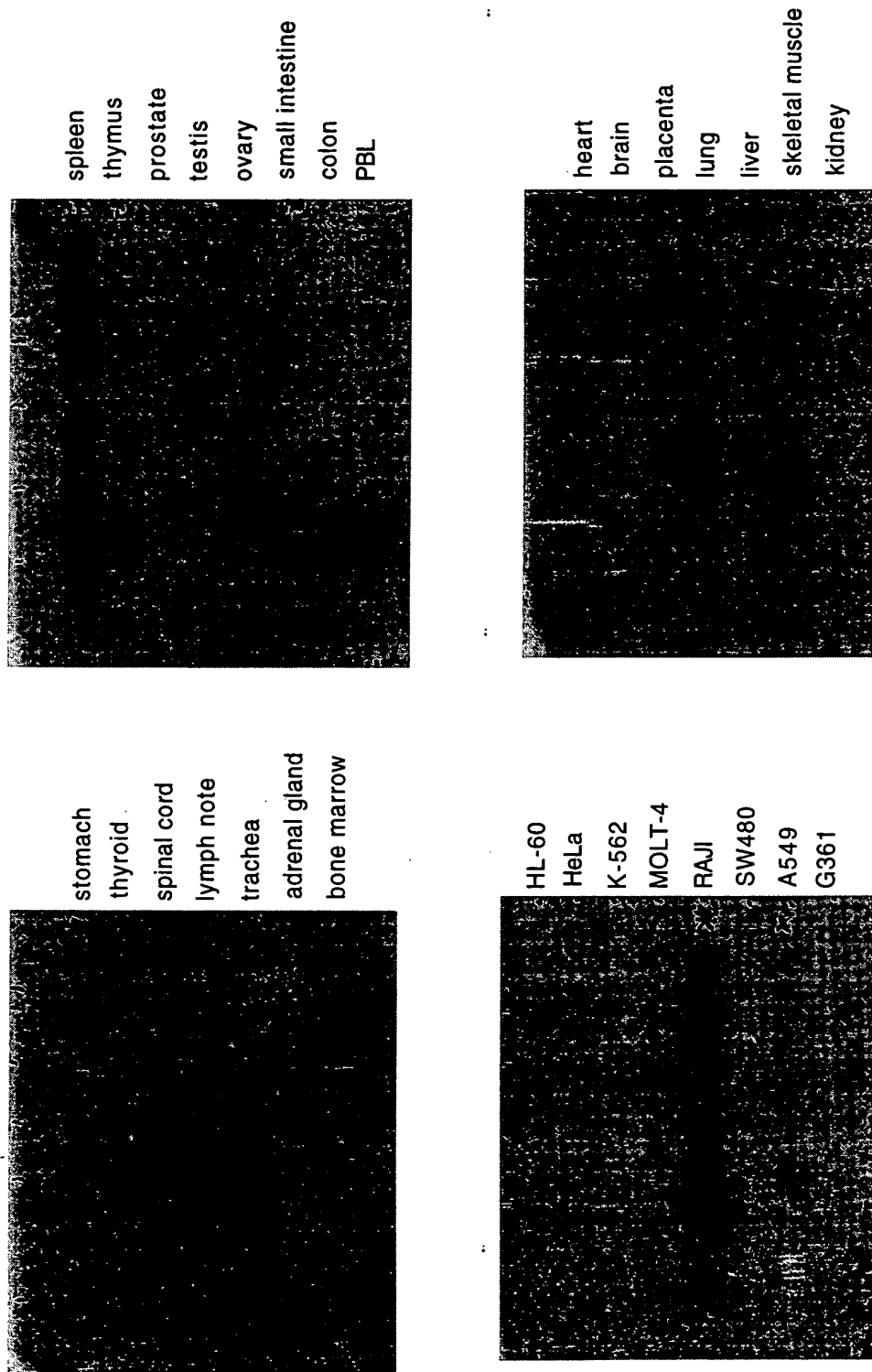


FIG 21

